

We Claim:

1. An isolated polypeptide comprising an amino acid sequence as set forth in SEQ ID NO:6; SEQ ID NO:8; SEQ ID NO:10; SEQ ID NO:12; SEQ ID NO:14; or SEQ ID NO:20 and further comprising an antibody heavy chain variable region.

2. The isolated polypeptide of claim 1, wherein the antibody heavy chain variable region is a cynomolgus monkey antibody heavy chain variable region.

3. The isolated polypeptide of claim 1, wherein the antibody heavy chain variable region is an antibody heavy chain variable region of a species other than a cynomolgus monkey.

4. The isolated polypeptide of claim 1, wherein the antibody heavy chain variable region is a human antibody heavy chain variable region.

5. The isolated polypeptide of claim 1, wherein the antibody heavy chain variable region is a mouse antibody heavy chain variable region.

6. An isolated polypeptide comprising an amino acid sequence as set forth in SEQ ID NO:30 and further comprising an antibody light chain variable region.

7. The isolated polypeptide of claim 6, wherein the antibody light chain variable region is a cynomolgus monkey antibody light chain variable region.

8. The isolated polypeptide of claim 6, wherein the antibody light chain variable region is an antibody light chain variable region of a species other than a cynomolgus monkey.

9. The isolated polypeptide of claim 6, wherein the antibody light chain variable region is a human antibody light chain variable region.

10. The isolated polypeptide of claim 6, wherein the antibody light chain variable region is a mouse antibody light chain variable region.

11. An isolated polynucleotide comprising a sequence encoding a polypeptide comprising an amino acid sequence as set forth in SEQ ID NO:6; SEQ ID NO:8; SEQ ID NO:10; SEQ ID NO:12; SEQ ID NO:14; or SEQ ID NO:20 and further comprising a sequence encoding a polypeptide comprising an antibody heavy chain variable region.

12. The isolated polynucleotide of claim 11, wherein the sequence encoding a polypeptide comprising an antibody heavy chain variable region is a sequence encoding a cynomolgus monkey heavy chain variable region.

13. The isolated polynucleotide of claim 11, wherein the sequence encoding a polypeptide comprising an antibody heavy chain variable region is a sequence encoding an antibody heavy chain variable region of a species other than a cynomolgus monkey.

14. The isolated polynucleotide of claim 11, wherein sequence encoding a polypeptide comprising an antibody heavy chain variable region is a sequence encoding a human antibody heavy chain variable region.

15. The isolated polynucleotide of claim 11, wherein the sequence encoding a polypeptide comprising an antibody heavy chain variable region is a sequence encoding a mouse antibody heavy chain variable region.

16. An isolated polynucleotide comprising a sequence encoding a polypeptide comprising an amino acid sequence as set forth in SEQ ID NO:30 and further comprising a sequence encoding a polypeptide comprising an antibody light chain variable region.

17. The isolated polynucleotide of claim 16, wherein the sequence encoding a polypeptide comprising an antibody light chain variable region is a sequence encoding a cynomolgus monkey antibody light chain variable region.

18. The isolated polynucleotide of claim 16, wherein the sequence encoding a polypeptide comprising an antibody light chain variable region is a sequence encoding an antibody light chain variable region of a species other than a cynomolgus monkey.

19. The isolated polynucleotide of claim 16, wherein the sequence encoding a polypeptide comprising an antibody light chain variable region is a sequence encoding a human antibody light chain variable region.

20. The isolated polynucleotide of claim 16, wherein the sequence encoding a polypeptide comprising an antibody light chain variable region is a sequence encoding a mouse antibody light chain variable region.

21. The isolated polynucleotide of claim 11, wherein the isolated polynucleotide comprises a nucleotide sequence as set forth in SEQ ID NO:5; SEQ ID NO:7; SEQ ID NO:9; SEQ ID NO:11; or SEQ ID NO:13; or SEQ ID NO:19.

22. The isolated polynucleotide of claim 16, wherein the isolated polynucleotide comprises a nucleotide sequence as set forth in SEQ ID NO:29.

23. An isolated antibody comprising a first polypeptide comprising an amino acid sequence as set forth in SEQ ID NO:6; SEQ ID NO:8; SEQ ID NO:10; SEQ ID NO:12; SEQ ID NO:14; or SEQ ID NO:20 and a second polypeptide comprising an amino acid sequence as set forth in SEQ ID NO:30.

24. The isolated antibody of claim 23, further comprising a cynomolgus monkey heavy chain variable region and a cynomolgus monkey light chain variable region.

25. The isolated antibody of claim 23, further comprising a heavy chain variable region of a species other than a cynomolgus monkey and a light chain variable region of the species other than a cynomolgus monkey.

26. The isolated antibody of claim 25, wherein the heavy chain variable region and the light chain variable region are from the same species.

27. The isolated antibody of claim 23, further comprising a human antibody heavy chain variable region and a human antibody light chain variable region.

28. The isolated antibody of claim 23, further comprising a mouse antibody heavy chain variable region and a mouse antibody light chain variable region.

29. A method for evaluating the effects of an antibody comprising:

- a) introducing into a cynomolgus monkey a chimeric antibody comprising light chain and heavy chain variable regions from an antibody and light chain and heavy chain constant regions from a cynomolgus monkey; and
- b) evaluating the effects of the chimeric antibody in the cynomolgus monkey.

30. The method of claim 29, wherein the evaluating comprises evaluating the efficacy of the chimeric antibody for treating or preventing a disease in the monkey.

31. The method of claim 29, wherein the evaluating comprises detecting an adverse event in the monkey.

32. An expression vector comprising an isolated polynucleotide of claim 11.

33. An expression vector comprising an isolated polynucleotide of claim 16
34. A cell comprising at least one of the expression vectors of claim 32 or claim 33.
35. A method of making a polypeptide comprising:
 - a) incubating a cell comprising the expression vector of claim 32 in conditions suitable for expression of the polypeptide; and
 - b) isolating the polypeptide.
36. A method of making a polypeptide comprising:
 - a) incubating a cell comprising the expression vector of claim 33 in conditions suitable for expression of the polypeptide; and
 - b) isolating the polypeptide.
37. A method of making a chimeric antibody comprising:
 - a) incubating a cell comprising the expression vector of claim 32 and further comprising the expression vector of claim 33 in conditions suitable for expression of the chimeric antibody; and
 - b) isolating the chimeric antibody.